	Application No.	Applicant(s)	$d\Omega$
Notice of Allowability	09/937,086	BLUM ET AL.	$\mathcal{O}(1)$
	Examiner	Art Unit	
	Rabon Sergent	1711	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	 (OR REMAINS) CLOSED) or other appropriate command (IGHTS. This application is 	in this application. If not incl nunication will be mailed in d	uded ue course. THIS
1. X This communication is responsive to <u>telephonic interview</u>	of March 10, 2004.		
2. \boxtimes The allowed claim(s) is/are <u>23-36 and 38-46</u> .			
3. \square The drawings filed on $___$ are accepted by the Examine	er.		
4. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents hav 2. Certified copies of the priority documents hav 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subminsformal PATENT APPLICATION (PTO-152) which gives the including changes required by the Notice of Draftspering including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	e been received. e been received in Applica cocuments have been receive d' of this communication to form. MENT of this application. mitted. Note the attached E wes reason(s) why the oath list be submitted. eson's Patent Drawing Revi desire Amendment / Comment 1.84(c)) should be written or	tion No yed in this national stage appliance in this national stage appliance. Taken a reply complying with the examiner's AMENDMENT of or declaration is deficient. Taken a reply complying with the examiner is deficient. Taken a reply complying with the or declaration of the drawings in the front (not the drawings).	requirements or NOTICE OF
 DEPOSIT OF and/or INFORMATION about the dep- attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MA	TERIAL must be submitte	d. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB. Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. 🛛 Interview Paper N /08), 7. 🖾 Examine	Informal Patent Application (Summary (PTO-413), Io./Mail Date <u>031004</u> . r's Amendment/Comment r's Statement of Reasons for Rabon Sergent Primary Examin	Allowance

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An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Gary Matz on March 10, 2004.

Amend claims 23, 40, 45, and 46 as follows:

- 23. (Amended) A polyurethane solution containing alkoxysilane structural units, wherein the polyurethane is the reaction product of
- a) at least one at least difunctional polyol having an hydroxyl number of from 8 to 200,
- b) at least one at least difunctional polyisocyanate having a molecular weight of 140 to 1,500,
- c) at least one low molecular weight at least difunctional alcohol and/or amine having a molecular weight of 32 to 500,
- d) at least one compound containing at least one alkoxysilane group and an isocyanatereactive group, and
- e) optionally, a monofunctional compound containing an amino, alcohol or oxime group, other than a compound falling within the scope of component d), in the presence of an organic solvent, wherein the equivalents of component d) are at least 50% of the total equivalents of components d) and e) and wherein the number of terminal alkoxysilane groups must be at least 50 wt.% of all the incorporated alkoxysilane groups and

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wherein the theoretical content of -Si-(O-)₃ structural units is less than 1.2 wt.%, based on the total solids content of the polyurethane.

- 40. (Amended) The process of Claim 39 which comprises
- a) reacting components a), b), and optionally c) in a one-stage reaction, optionally in the presence of solvents, to obtain an isocyanate-functional polyurethane,
- b) optionally adding an additional amount of polyisocyanate b) and/or low molecular weight difunctional component c) until a viscosity of from 1,000 to 200,000 mPas (at 23°C) and molecular weight (Mn) of from 4,000 to 500,000 is achieved, and
- c) chain-stopping the reaction by adding a monoamino-functional compound d) containing an alkoxysilane group.
- 45. (Amended) A polyurethane solution containing alkoxysilane structural units, wherein the polyurethane is the reaction product of
- a) at least one at least difunctional polyol having an hydroxyl number of from 8 to 200 and a molecular weight of up to 16,000,
- b) at least one at least difunctional polyisocyanate having a molecular weight of 140 to 1,500,
- c) at least one low molecular weight at least difunctional alcohol and/or amine having a molecular weight of 32 to 500,
- d) at least one compound containing at least one alkoxysilane group and an isocyanatereactive group, and

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- e) optionally, a monofunctional compound containing an amino, alcohol or oxime group, other than a compound falling within the scope of component d), in the presence of an organic solvent, wherein the equivalents of component d) are at least 50% of the total equivalents of components d) and e) and wherein the number of terminal alkoxysilane groups must be at least 50 wt.% of all the incorporated alkoxysilane groups and wherein the theoretical content of –Si-(O-)₃ structural units is less than 1.2 wt.%, based on the total solids content of the polyurethane.
- 46. (Amended) A polyurethane solution containing alkoxysilane structural units, wherein the polyurethane is the reaction product of
- a) at least one at least diffunctional polyol having a molecular weight of 561 to 16,000,
- b) at least one at least difunctional polyisocyanate having a molecular weight of 140 to 1,500,
- c) at least one low molecular weight at least difunctional alcohol and/or amine having a molecular weight of 32 to 500,
- d) at least one compound containing at least one alkoxysilane group and an isocyanatereactive group, and
- e) optionally, a monofunctional compound containing an amino, alcohol or oxime group, other than a compound falling within the scope of component d), in the presence of an organic solvent, wherein the equivalents of component d) are at least 50% of the total equivalents of components d) and e) and wherein the number of terminal alkoxysilane groups must be at least 50 wt.% of all the incorporated alkoxysilane groups and

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wherein the theoretical content of –Si-(O-)₃ structural units is less than 1.2 wt.%, based on the total solids content of the polyurethane.

Any inquiry concerning this communication should be directed to Rabon Sergent at telephone number (571) 272-1079.

RABON SERGENT

R. Sergent

March 10, 2004

The following is an examiner's statement of reasons for allowance: The instant invention is deemed to be allowable over the closest prior art of record, considered to be Moren et al. ('651), because the prior art fails to disclose or render obvious the claimed alkoxysilane containing polyurethane solutions having a theoretical content of –Si-(O-)₃ structural units of less than 1.2 wt.%, based on the total solids content of the polyurethane.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication should be directed to Rabon Sergent at telephone number (571) 272-1079.

R. Sergent

March 10, 2004